

Title (en)

Apparatus and method for communicating data in hybrid diversity mode in broadband wireless communication system

Title (de)

Vorrichtung und Verfahren zur Datenkommunikation in hybridem Diversitätsmodus in einem drahtlosen Breitbandkommunikationssystem

Title (fr)

Appareil et procédé pour communiquer des données en mode de diversité hybride dans un système de communication sans fil à bande large

Publication

EP 1806893 A2 20070711 (EN)

Application

EP 07100045 A 20070103

Priority

KR 20060001473 A 20060105

Abstract (en)

Provided is an apparatus and method for communicating data in a hybrid diversity mode in a broadband wireless communication system. In a method for transmitting data to a subscriber station (SS) in the broadband wireless communication system, null subbands are determined using feedback information received from the SS. TX data to be transmitted to the SS are mapped to a diversity zone from which the null subbands has been excluded. The mapped data are OFDM-modulated and transmitted to the SS. In this way, frequency subbands with poor channel conditions are excluded from data transmission. Accordingly, it is possible to enhance the FER performance and transmit data at a high MCS level.

IPC 8 full level

H04L 27/26 (2006.01); **H04L 1/02** (2006.01)

CPC (source: EP KR US)

H04L 1/02 (2013.01 - EP US); **H04L 5/0044** (2013.01 - EP US); **H04L 5/006** (2013.01 - EP US); **H04L 27/26** (2013.01 - KR); **H04L 5/0007** (2013.01 - EP US)

Cited by

US8630673B2; US8768264B2; US8780689B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1806893 A2 20070711; KR 20070073508 A 20070710; US 2007191065 A1 20070816

DOCDB simple family (application)

EP 07100045 A 20070103; KR 20060001473 A 20060105; US 65035707 A 20070105